

CS335: Project Milestone 4

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April 20, 2023

1 Compilation Instructions

To compile the code:

- Extract the contents of the provided zip file.
- Change the current working directory to the location where the zip is extracted.
- Run **compile.sh** using the command **"./compile.sh"**, note that you may need to run the command **"chmod +x compile.sh"** before this.
- An executable called **parser** will appear in the current working directory.

2 Execution Instructions

To run the executable :

- Usage: **./parser --input=input/file/path --output=output/file/path [options]"**
- **--input=input/file/path** : Input file specification (default is command line)
- **--output=output/file/path** : Output file specification (default is out.3AC)
- Instruction regarding usage instructions and options
- **--verbose**: Prints the complete stack trace of the parser execution

The symbol tables are output as a different csv file for each scope and the assembly code is output in the output file specified with the output flag, by default it goes to **"out.s"**. Then run the following commands to make a binary and execute it

- **gcc -g -no-pie out.s -o out**
- **./out**

If your output file is named something other than **out.s** put it there in the first command.

Basic Features, all are supported :

- Datatype int is
- Multi-dimensional arrays
- all basic operators
- All control flow
- Recursion
- println
- Limited class support

Optional features

- Do while loops

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